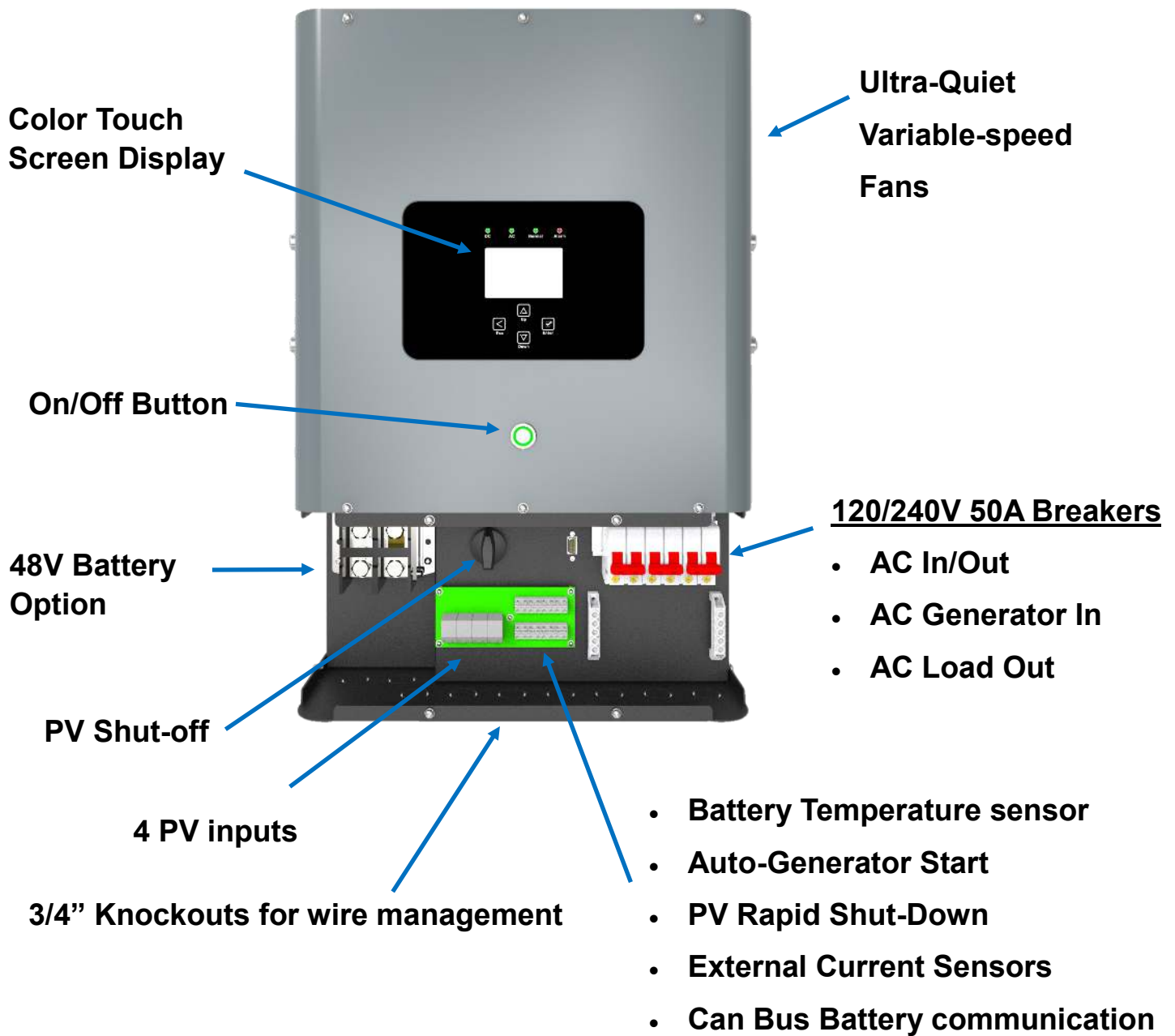




Sol-Ark 8K

SOLAR GENERATOR

April 2018

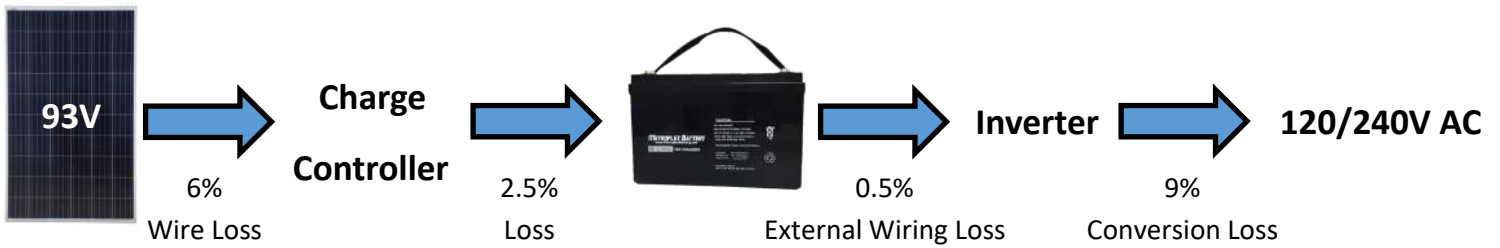


Wireless Monitoring & Remote Software updates



GROUND BREAKING EFFICIENCY

Battery Systems are < 82% Efficient because of transformations to/from 48V



Sol-Ark 8K is > 96% Efficient



Sol-Ark 8K Transformerless Conversion

POWERFUL

8,000W Continuous / 12,000W Surge / 12,000W Grid Connected

FLEXIBLE

4-32 Solar panels (up to 10KW) and 0-32 Batteries

GRID-TIED, HYBRID OR OFF-GRID

Simultaneously manages power to/from Solar, Battery, Grid, Load, and Generator.

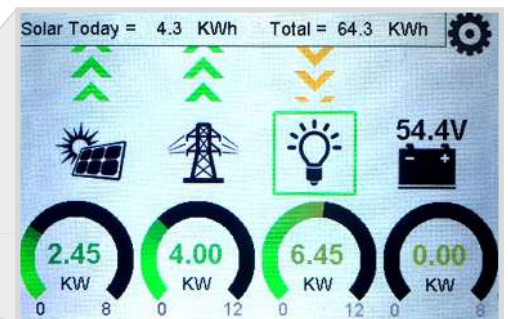
SIMPLE TO INSTALL & USE

Few external components for faster install.

Touchscreen interface as easy to understand as your phone.

EMP/CME/LIGHTNING PROTECTION

The option to protect your system and appliances from EMP/Solar Flare/Lightning



972-575-8875

sales@portablesolarllc.com

www.portablesolarllc.com

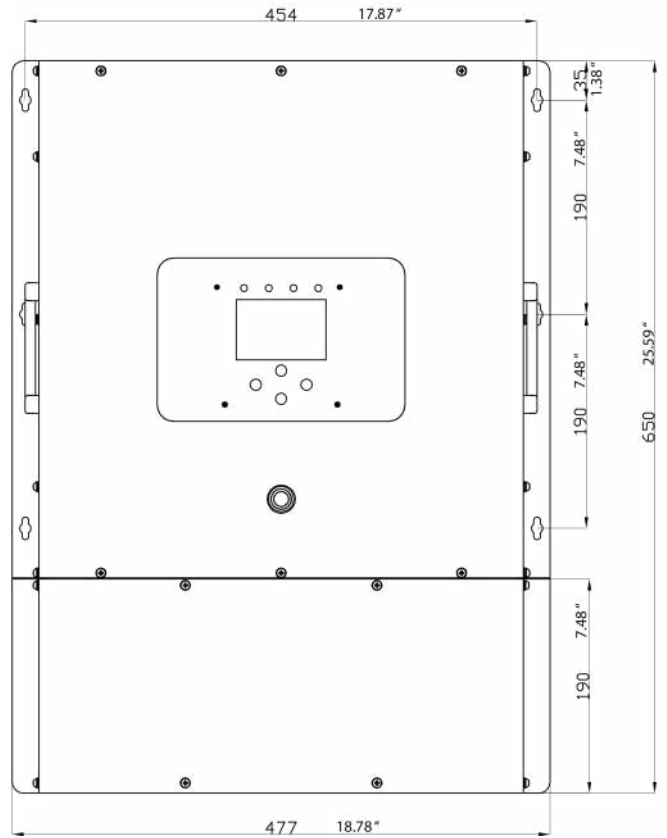
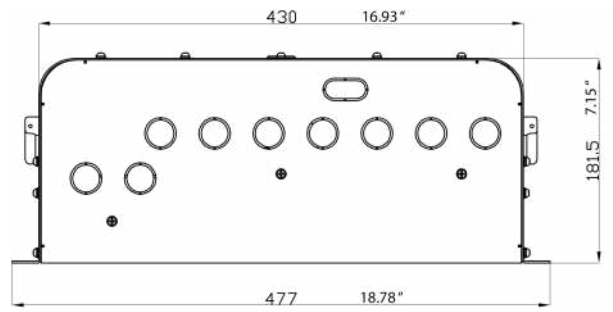
Sol-Ark 8K Preliminary Specifications (subject to change)

Solar	
Max allowed PV Power	10000W
Max allowed PV Power per MPPT	5000W
Max DC voltage	500V
MPPT voltage range	120-425V
Starting voltage	150V
Number of MPPT	2
Solar Strings per MPPT	2
Max DC current per MPPT	18A

AC Output	
Connections	120/240V split phase
Continuous AC power on Solar or Battery	8000W 33A L-L 4000W 33A L-N
Surge AC power 10sec	12000VA L-L 6000VA L-N
Frequency	60/50Hz
Continuous AC power with Grid or Generator	12000W 50A L-L 6000W 50A L-N
Peak Efficiency	97.0%
CEC Efficiency	96.0%
Idle Consumption typical – no load	50W
Sell back power modes	Limited to Household or Full Grid-Tied
Design	Transformerless
Response Time (Grid-Tied to Off-Grid)	15ms

Battery (optional)	
Type	Lead-Acid or Li-Ion
Nominal DC Input	48V
Capacity	0 – 1000Ah
Voltage Range	40.0 – 61.0V
Continuous Battery charging output	150A
Charging curve	3-stage w/ equalization
External temperature sensor	optional
Current shunt for accurate % SOC	integrated
External Generator Start based on voltage or % SOC	integrated
Communication to Lithium battery	CanBus

General	
Dimensions (H x W x D)	25.6" x 18.8" x 7.1"
Weight	75 lbs
Mounting	Wall
Air Cooling	3 variable speed fans
Display	Color touch screen
Wi-Fi Communication (monitoring or SW updates)	integrated
Snap on sensors for limited selling to Household	included
Standard Warranty	5 years
Optional Extended Warranty	10 years



Protection & Certifications (UL approvals April 2018)	
Electronics certified safety by UL or ETL or SGS labs – NEC 690.4B & NEC 705.4/6	Yes
Grid Sell Back – UL1741 SA, Calif Rule 21, IEEE1547, FCC 15 class B	Yes
PV DC disconnect switch – NEC 240.15	integrated
Ground Fault Detection – NEC 690.5	integrated
PV rapid shutdown control – NEC 690.12	integrated
PV Arc Fault detection – NEC 690.11/UL1699B	integrated
PV input lightning protection	integrated
AC input/output 50A breakers	integrated
Battery overcurrent fuse	integrated
User wiring enclosure w/ 3/4" knock-outs	integrated
Solar Flare/EMP Hardened to 2015 MIL-STD-461G (Independently tested Mar 2018)	optional